

RF Exposure Statement

Product / EUT: *RFID Reader*
Type designation: *ARE H3.0 Iso FDX B/A*
Tested type: *ARE H3.0 Iso FDX B/A*

Production level: *ID Number 1007338*
Firmware: *v1.1.6.0*
S/N: *000169*

FCC ID: *V7IAREH30LF*

Manufacturer: *AEG Identifikationssysteme GmbH*
Hörvelsinger Weg 47
89081 Ulm / Germany

Test remit **FCC §1.1307 (b) & §2.1091 – RF EXPOSURE**
KDB 447498 D04 Interim General RF Exposure Guidance v01
1-mW Test Exemption

Applicant: *AEG Identifikationssysteme GmbH*
Hörvelsinger Weg 47
89081 Ulm / Germany

EUT-
Date of arrival: 08/16/2024
Test ID: 24-0165PR33-002
Date(s) of test: 08/28/2024

Test laboratory: EMCE GmbH
Ingenieurbüro für EMV-Prüfungen und Schaltungsentwicklung
Untere Wiesen 1 / 88483 Burgrieden / Germany

Project manager: Mr. S. Vogelmann

Inspector: Mr. S. Vogelmann

Approval: Mr. Chr. Vogelmann

Remark: The test results effects only to the related items tested at the time of the test. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

RF exposure assessment

FCC §1.1307 (b) & §2.1091 – RF EXPOSURE

KDB 447498 D04 v01	Applicable Standard					
2.1 General RF Exposure for Single Source	According to FCC §2.1091 and §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.					
☐ 2.1.1	1-mW Test Exemption					
☒ 2.1.2	Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.					
☐ 2.1.3	Test Result:					
☐ 2.1.4	For worst case:					
Test result	Mode	Frequency MHz	Maximum ERP dBm	mW	Limit mW	1-mW Test Exemption
☒ compliant	LF - RFID	0.134215	-17.15	0.0193	1	Fulfilled
☐ not compliant	Note 1: Use of the maximum E-field strength (Peak) 79.7 (dBμV/m) @3(m) for the RF exposure evaluation.					
	Note 2: EIRP (dBm) = E (dBμV/m) - 94.7 (dB) for distance 3 (m)					
	Note 3: EIRP (dBm) = ERP (dBm) + 2.15 (dBi)					
	Note 4: ERP=79.7 (dBμV/m) - 94.7 (dB) – 2.15 (dBi) = -17.15 dBm					